

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
US Department of Commerce  
United States Patent and Trademark  
Office, PCT  
2011 South Clark Place Room  
CP2/5C24  
Arlington, VA 22202  
ETATS-UNIS D'AMERIQUE  
in its capacity as elected Office

Date of mailing (day/month/year)

01 December 2000 (01.12.00)

International application No.

PCT/US00/04438

Applicant's or agent's file reference

BERN-0033

International filing date (day/month/year)

22 February 2000 (22.02.00)

Priority date (day/month/year)

23 February 1999 (23.02.99)

Applicant

BERNSTEIN, Eric, F.

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

13 September 2000 (13.09.00)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Pascal Piriou

Telephone No.: (41-22) 338.83.38

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
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Arlington, VA 22202  
ETATS-UNIS D'AMERIQUE  
in its capacity as elected Office

<b>Date of mailing</b> (day/month/year) 31 October 2001 (31.10.01)	
<b>International application No.</b> PCT/US00/04448	<b>Applicant's or agent's file reference</b> 323.29-PCT
<b>International filing date</b> (day/month/year) 22 February 2000 (22.02.00)	<b>Priority date</b> (day/month/year)
<b>Applicant</b> FISH, Robert D.	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
27 June 2001 (27.06.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

RECEIVED

SEP 09 2002

TECH CENTER 1600/2900

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b> Pascal Piriou Telephone No.: (41-22) 338.83.38
--	--

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 09 JUL 2001

WIPO PCT

Applicant's or agent's file reference BERN-0033	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/US99/04438	International filing date (day/month/year) 22 FEBRUARY 2000	Priority date (day/month/year) 23 FEBRUARY 1999
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.		
Applicant BERNSTEIN, ERIC F.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of <u>0</u> sheets.
3. This report contains indications relating to the following items: I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step or industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 13 SEPTEMBER 2000	Date of completion of this report 04 JUNE 2001
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer SCOTT D. PRIEBE, PH.D.
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0196

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04438

## I. Basis of the report

## 1. With regard to the elements of the international application: \*

☒ the international application as originally filed☒ the description:

pages 1-9, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the claims:

pages 10, as originally filed  
pages NONE, as amended (together with any statement) under Article 19  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the drawings:

pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the sequence listing part of the description:

pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☒ The amendments have resulted in the cancellation of:☒ the description, pages NONE☒ the claims, Nos. NONE☒ the drawings, sheets/fig. NONE5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\*Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No

PCT/US00/04438

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. statement

Novelty (N)

Claims NONE YESClaims 1-2 NO

Inventive Step (IS)

Claims NONE YESClaims 1-2 NO

Industrial Applicability (IA)

Claims 1-2 YESClaims NONE NO

## 2. citations and explanations (Rule 70.7)

Claims 1 and 2 lack novelty under PCT Article 33(2) as being anticipated by Bernstein et al (US Patent 5,648,061).

Applicant's claimed invention is to an in vitro system and its use for identifying agents capable of affecting oxidative damage comprising a fibroblast cell culture wherein the cells were derived from a transgenic mouse expressing the human elastin promoter, and a means to generate reactive oxygen species. Bernstein et al disclose an in vitro system comprising fibroblasts derived from a transgenic mouse expressing the human elastin promoter operably linked to a CAT reporter gene and its use in identifying compounds capable of inhibiting cutaneous photodamage. Bernstein et al also disclose that the means of generating reactive oxygen species was by exposing the fibroblast cells to UVB radiation. Therefore, the claimed invention was clearly anticipated.

----- NEW CITATIONS -----

NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04438

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**CLASSIFICATION:**

The International Patent Classification (IPC) and/or the National classification are as listed below:  
IPC(7): A01N 63/00; A61K 38/43, 38/44, 38/54; C12N 5/00, 15/00 and US Cl.: 424/93.7, 94.1, 94.3, 94.4; 435/320.1, 325; 800/13, 18

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

## PCT

### WRITTEN OPINION

(PCT Rule 66)

To: JANE MASSEY LICATA  
LAW OFFICES OF JANE MASSEY LICATA  
66 E. MAIN STREET  
MARLTON, NJ 08053

Docket System ☒  
Status Report ☒  
Docket Book ☒

4/16/01

Date of Mailing  
(day/month/year)

16 FEB 2001

Applicant's or agent's file reference

BERN-0033

REPLY DUE

within TWO months  
from the above date of mailing

International application No.

PCT/US00/04438

International filing date (day/month/year)

22 FEBRUARY 2000

Priority date (day/month/year)

23 FEBRUARY 1999

International Patent Classification (IPC) or both national classification and IPC  
Please See Supplemental Sheet.

Applicant

BERNSTEIN, ERIC F.

1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.

When? See the time limit indicated above. ~~The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).~~

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 23 JUNE 2001.

Name and mailing address of the IPEA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

CARRIE MARLENE STROUP

Telephone No. (703) 308-0196

WRITTEN OPINION

International application No.

PCT/US00/04438

**I. Basis of the opinion**

1. With regard to the elements of the international application: \*

☒ the international application as originally filed

☒ the description:

pages 1-9 , as originally filed

pages NONE , filed with the demand

pages NONE , filed with the letter of

☒ the claims:

pages 10 , as originally filed

pages NONE , as amended (together with any statement) under Article 19

pages NONE , filed with the demand

pages NONE , filed with the letter of

☒ the drawings:

pages NONE , as originally filed

pages NONE , filed with the demand

pages NONE , filed with the letter of

☒ the sequence listing part of the description:

pages NONE , as originally filed

pages NONE , filed with the demand

pages NONE , filed with the letter of

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:

☐ contained in the international application in printed form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

☒ the description, pages NONE

☒ the claims, Nos. NONE

☒ the drawings, sheets/fig. NONE

5. ☐ This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".



WRITTEN OPINION

International application No.

PCT/US00/04438

**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. statement

Novelty (N)

Claims NONE YES  
Claims 1-2 NO

Inventive Step (IS)

Claims NONE YES  
Claims 1-2 NO

Industrial Applicability (IA)

Claims 1-2 YES  
Claims NONE NO

2. citations and explanations

Claims 1 and 2 lack novelty under PCT Article 33(2) as being anticipated by Bernstein et al (US Patent 5,648,061).

Applicant's claimed invention is to an in vitro system and its use for identifying agents capable of affecting oxidative damage comprising a fibroblast cell culture wherein the cells were derived from a transgenic mouse expressing the human elastin promoter, and a means to generate reactive oxygen species. Bernstein et al disclose an in vitro system comprising fibroblasts derived from a transgenic mouse expressing the human elastin promoter operably linked to a CAT reporter gene and its use in identifying compounds capable of inhibiting cutaneous photodamage. Bernstein et al also disclose that the means of generating reactive oxygen species was by exposing the fibroblast cells to UVB radiation. Therefore, the claimed invention was clearly anticipated.

----- NEW CITATIONS -----

NONE

WRITTEN OPINION

International application No.

PCT/US00/04438

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

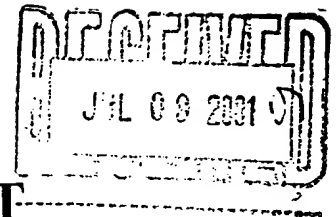
**TIME LIMIT:**

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

**CLASSIFICATION:**

The International Patent Classification (IPC) and/or the National classification are as listed below:  
IPC(7): A01N 63/00; A61K 38/43, 38/44, 38/54; C12N 5/00, 15/00 and US Cl.: 424/93.7, 94.1, 94.3, 94.4; 435/320.1, 325; 800/13, 18

# PATENT COOPERATION TREATY



From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

**PCT**

To: JANE MASSEY LICATA  
LAW OFFICES OF JANE MASSEY LICATA  
66 E. MAIN STREET  
MARLTON, NJ 08053

✓  
Status Report ✓  
Docket Book ✓  
NP = 8/23/01

## NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing  
(day/month/year) **29 JUN 2001**

Applicant's or agent's file reference  
**BERN-0033**

### IMPORTANT NOTIFICATION

International application No.  
**PCT/US00/04438**

International filing date (day/month/year)  
**22 FEBRUARY 2000**

Priority Date (day/month/year)  
**23 FEBRUARY 1999**

Applicant  
**BERNSTEIN, ERIC F.**

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer  
**SCOTT D. PRIEBE, PH.D.**

Telephone No. (703) 308-0196

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04438

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

☒ the international application as originally filed☒ the description:

pages 1-9, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the claims:

pages 10, as originally filed  
pages NONE, as amended (together with any statement) under Article 19  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the drawings:

pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

☒ the sequence listing part of the description:

pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

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\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\*Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04438

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. statement**

Novelty (N)

Claims NONE YESClaims 1-2 NO

Inventive Step (IS)

Claims NONE YESClaims 1-2 NO

Industrial Applicability (IA)

Claims 1-2 YESClaims NONE NO**2. citations and explanations (Rule 70.7)**

Claims 1 and 2 lack novelty under PCT Article 33(2) as being anticipated by Bernstein et al (US Patent 5,648,061).

Applicant's claimed invention is to an in vitro system and its use for identifying agents capable of affecting oxidative damage comprising a fibroblast cell culture wherein the cells were derived from a transgenic mouse expressing the human elastin promoter, and a means to generate reactive oxygen species. Bernstein et al disclose an in vitro system comprising fibroblasts derived from a transgenic mouse expressing the human elastin promoter operably linked to a CAT reporter gene and its use in identifying compounds capable of inhibiting cutaneous photodamage. Bernstein et al also disclose that the means of generating reactive oxygen species was by exposing the fibroblast cells to UVB radiation. Therefore, the claimed invention was clearly anticipated.

----- NEW CITATIONS -----

NONE

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04438

## I. Basis of the report

1. With regard to the elements of the international application: \*

☒ the international application as originally filed☒ the description:pages 1-9, as originally filed  
pages NONE, filed with the demand  
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pages NONE, as amended (together with any statement) under Article 19  
pages NONE, filed with the demand  
pages NONE, filed with the letter of☒ the drawings:pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of☒ the sequence listing part of the description:pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
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- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

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- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/fig. NONE

5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(e)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\*Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/04438

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**CLASSIFICATION:**

The International Patent Classification (IPC) and/or the National classification are as listed below:

IPC(7): A01N 63/00; A61K 38/43, 38/44, 38/54; C12N 5/00, 15/00 and US Cl.: 424/93.7, 94.1, 94.3, 94.4; 435/320.1, 325; 800/13, 18

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/04438

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 63/00; A61K 38/43, 38/44, 38/54; C12N 5/00, 15/00  
US CL : 424/93.7, 94.1, 94.3, 94.4; 435/320.1, 325; 800/13, 18  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/93.7, 94.1, 94.3, 94.4; 435/320.1, 325; 800/13, 18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST1.2, CAPLUS, MEDLINE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KAWAGUCHI et al. Effect of Reactive Oxygen Species on the Elastin mRNA Expression in Cultured Human Dermal Fibroblasts. Free Radical Biology and Medicine. January 1997, Vol. 23, pages 162-165, especially abstract and Table 1, pg 163.	1, 2
Y	US 5,648,061 A (BERSTEIN ET AL) 15 July 1997 (7/15/97), see entire document, especially column 4, line 25-col 5, line 6.	1, 2
A	WESTERMARCK et al. Suppression of Elastin Gene Expression in Dermal Fibroblasts by Protein Phosphatase Inhibitor Okadaic Acid. Biochemical and Biophysical Research Communications. 06 April 1995, Vol. 209, No. 1, pages 175-181, especially 179, para. 3.	1, 2



Further documents are listed in the continuation of Box C.



See patent family annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\*

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\*

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\*

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*Z\*

document member of the same patent family

Date of the actual completion of the international search

07 APRIL 2000

Date of mailing of the international search report

27 APR 2000

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized Officer

CARRIE MARLENE STROUP

Telephone No. (703) 308-0196



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/04438

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Database Caplus, AN 1994: 491261, OKADA et al. Dermal components and free radicals. Nippon Koshohin Kagakkaishi. 1993, Vol. 17, No. 4, pages 202-206, especially abstract.	1, 2